1.34

O(n):

```
MAX = -1e9, MIN = 1e9
for i ← 1 to n
    if A[i] ≥ MAX then
        MAX = A[i]
    if A[i] < MIN then
        MIN = A[i]
return MAX
return MIN
```

Ω(n log n):

```
for i ← 1 to n-1
    k ← i
    for j ← i+1 to n
        if A[j] < A[k] then k ← j
    end for
    if k ≠ i then
end for
return A[1]
return A[n]
```

1.37

(a) $\Omega(n^2)$:

```
sum ← A[0]
for i ← 1 to n
    temp ← 1
    for j ← 1 to i
        temp ← temp * X
        j ← j+1
    end for
    sum ← sum + A[i] * temp
    i ← i+1
end for
return sum
```

(b) O(n)

```
sum ← 0
for i ← n to 0
    sum ← sum * X + A[i]
    i ← i-1
end for
return sum
```

1.38

对 n 个数进行排序，快速排序 nlogn.